

ELECTRONIC TUBE REFERENCE

6Y7G

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Twin power triode designed primarily for Class B push-pull audio amplification. Both sections operate together as an output stage, with published conditions providing roughly 8 W from a 250 V supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8B	BASE PINS	8
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	11.5 W
MAXIMUM CATHODE CURRENT	90 mA
Two electrically identical power-triode sections represented once under identical-section compression.	

SECTION2 Triode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	11.5 W
MAXIMUM CATHODE CURRENT	90 mA
Second identical physical triode section; added to align rows with SectionCount.	

Class-B double triode amplifier; French source states characteristics and applications otherwise match Type 79. The French-language source has been translated to English.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak plate current maximum	90 mA	EachSection
Plate voltage	180 V	ClassB;PushPull;TwoTubes
Control-grid voltage	0 V	ClassB;PushPull;TwoTubes
No-signal plate current per plate	3.8 mA	ClassB;PushPull;TwoTubes
Load resistance plate-to-plate	7000 Ω	ClassB;PushPull;TwoTubes
Power output	5.5 W	ClassB;PushPull;TwoTubes
Plate voltage	250 V	ClassB;PushPull;TwoTubes
Control-grid voltage	0 V	ClassB;PushPull;TwoTubes
No-signal plate current per plate	5.3 mA	ClassB;PushPull;TwoTubes
Load resistance plate-to-plate	14000 Ω	ClassB;PushPull;TwoTubes
Power output	8 W	ClassB;PushPull;TwoTubes

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassB;PushPull;TwoTubes
Grid voltage	0 V	ClassB;PushPull;TwoTubes
Plate current	5.3 mA	ClassB;PushPull;TwoTubes
Plate-to-plate load resistance	14000 ohm	ClassB;PushPull;TwoTubes
Power output	8 W	ClassB;PushPull;TwoTubes



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	600 mA	Nominal
Plate voltage	180 V	ClassB; OperatingPoint1
Effective load resistance plate-to-plate	7000 ohm	ClassB; OperatingPoint1
Average grid-to-grid power input	380 mW	ClassB; OperatingPoint1
Power output	5.5 W	ClassB; OperatingPoint1
Plate voltage	250 V	ClassB; OperatingPoint2
Effective load resistance plate-to-plate	14000 ohm	ClassB; OperatingPoint2
Average grid-to-grid power input	380 mW	ClassB; OperatingPoint2
Power output	8 W	ClassB; OperatingPoint2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero-signal plate current per plate	3.8 mA	ClassB; OperatingPoint1
Zero-signal plate current per plate	5.3 mA	ClassB; OperatingPoint2

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to cathode	3.6 pF	Per identical triode
Plate to cathode	4.6 pF	Per identical triode
Grid to plate	2.6 pF	Per identical triode
Grid 1 to grid 2	0.3 pF	Cross-section capacitance
Plate 1 to plate 2	1.7 pF	Cross-section capacitance
Grid 1 to plate 2	0.12 pF	Cross-section capacitance
Grid 2 to plate 1	0.12 pF	Cross-section capacitance